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FIG. 1

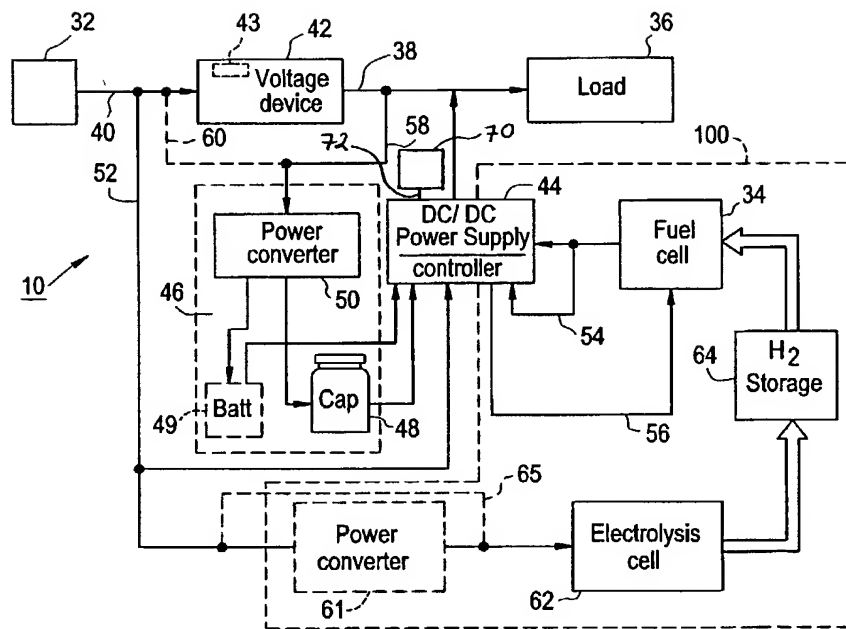


FIG. 3

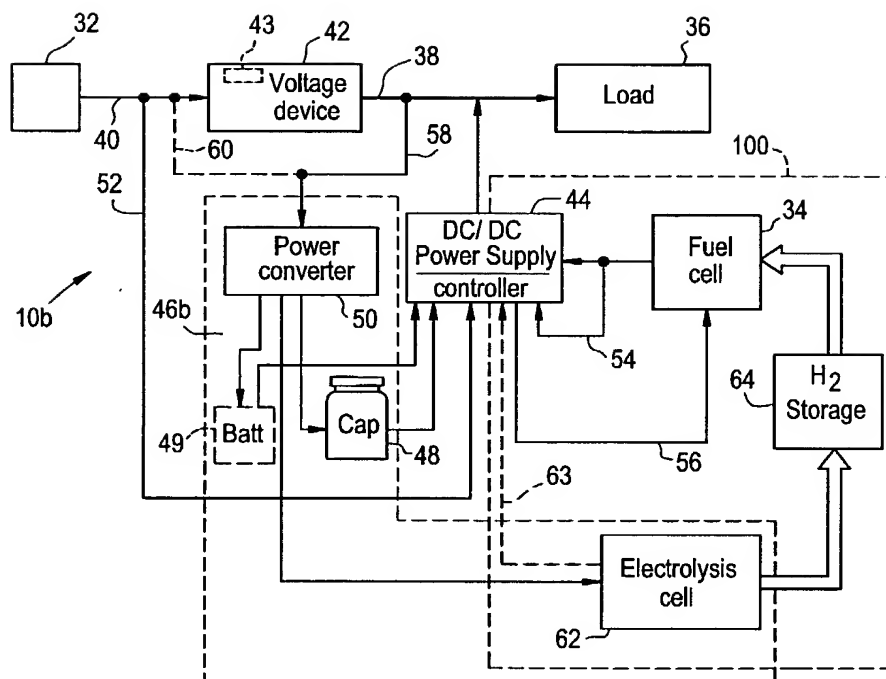
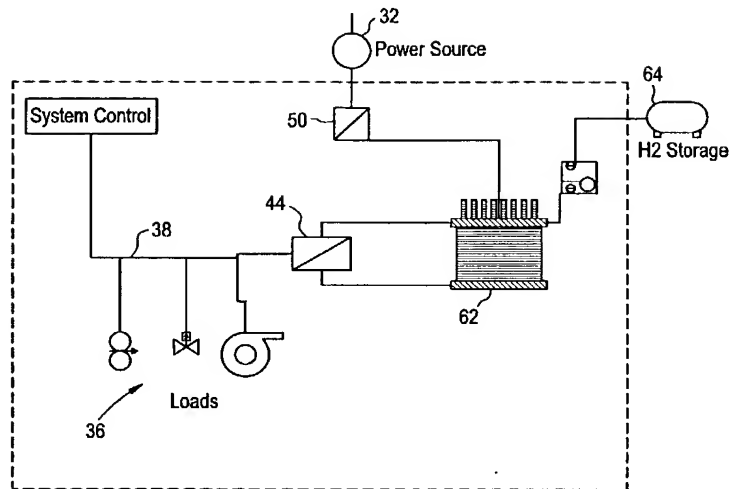
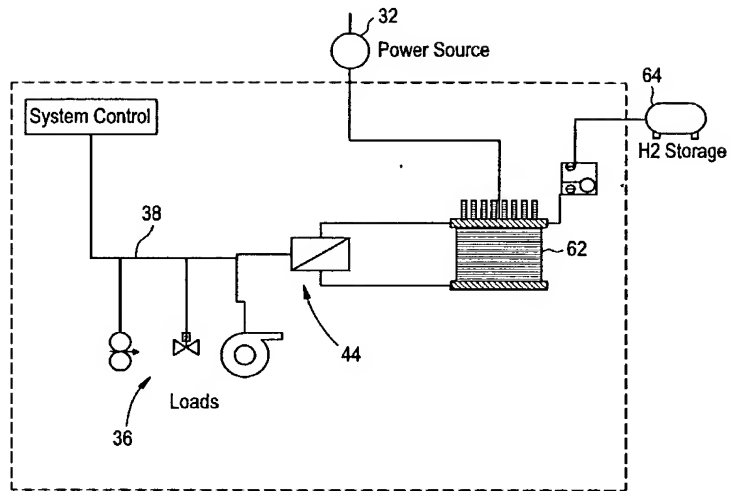


FIG. 4

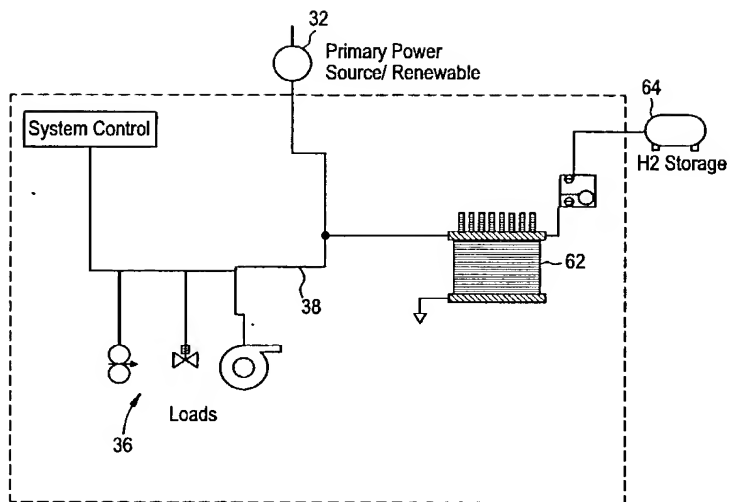


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FIG. 6

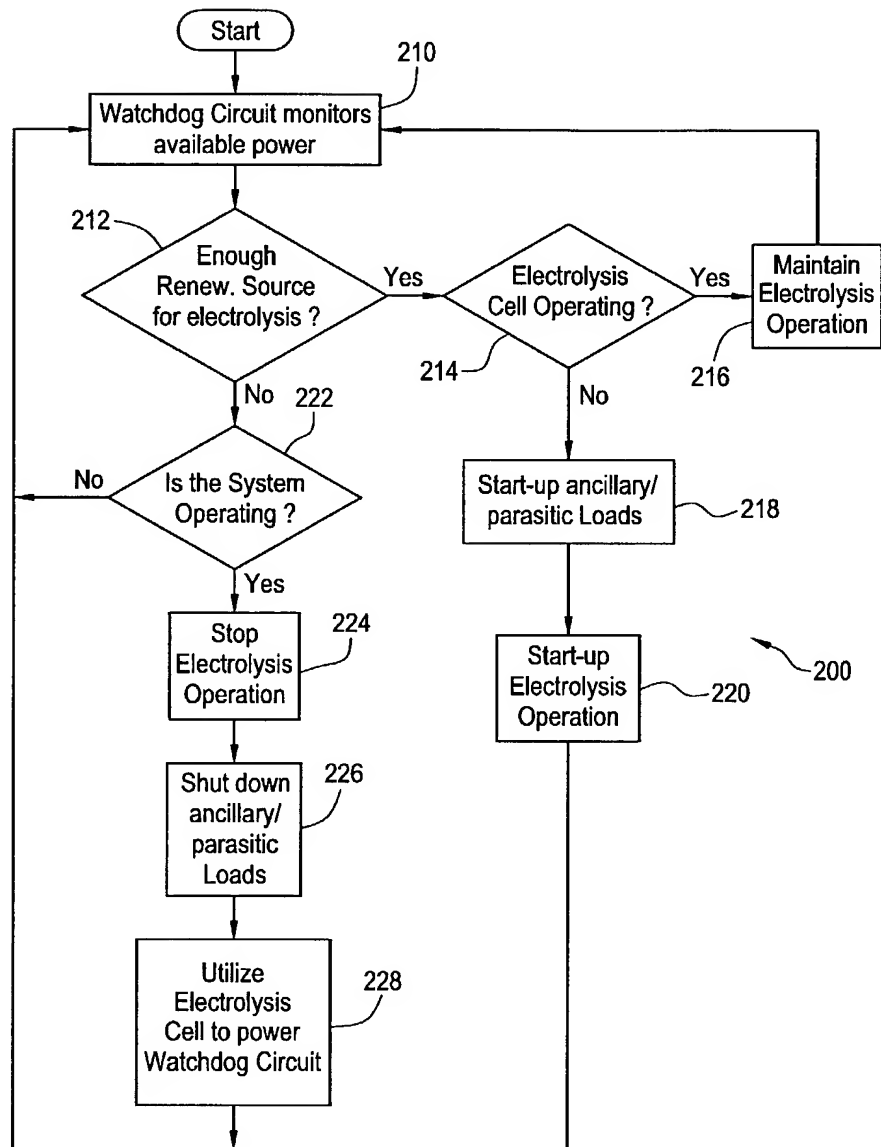


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FIG. 8



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FIG. 9

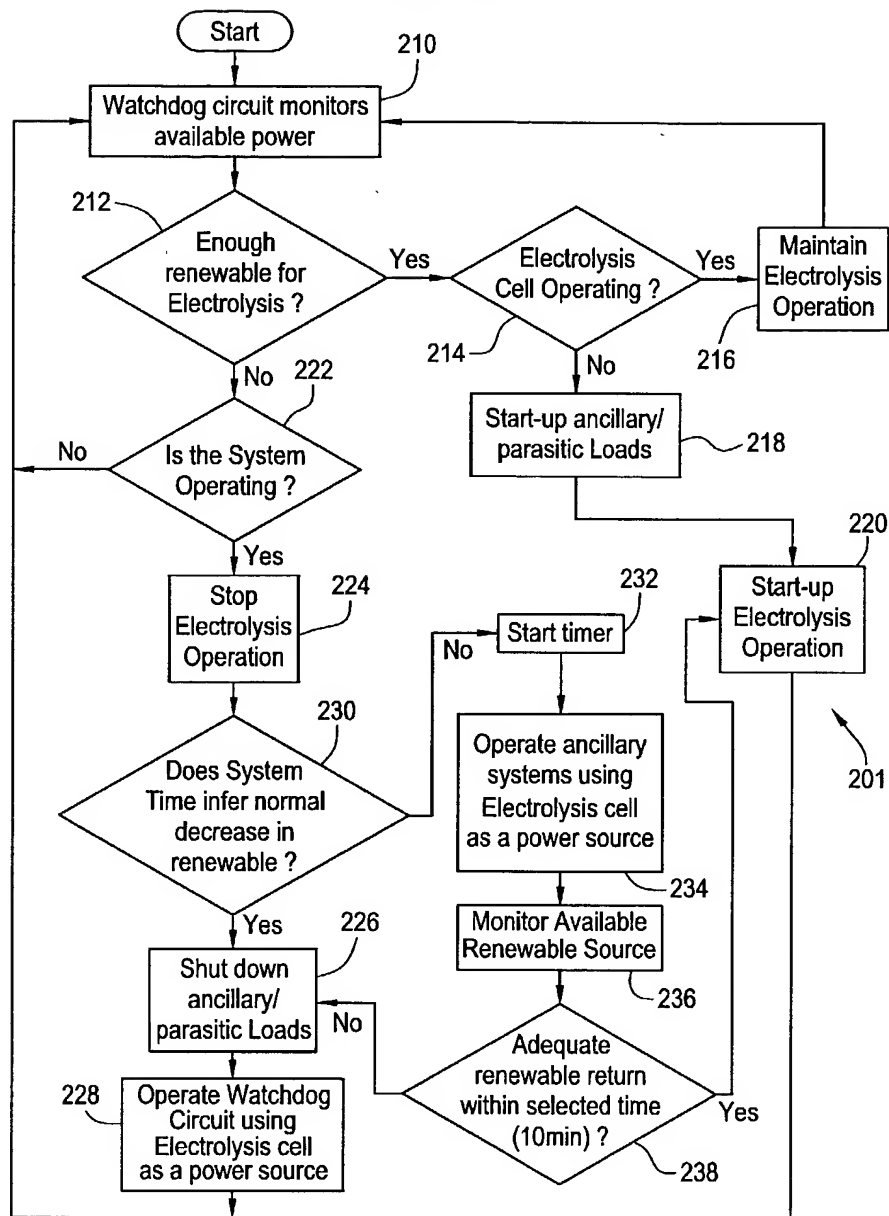
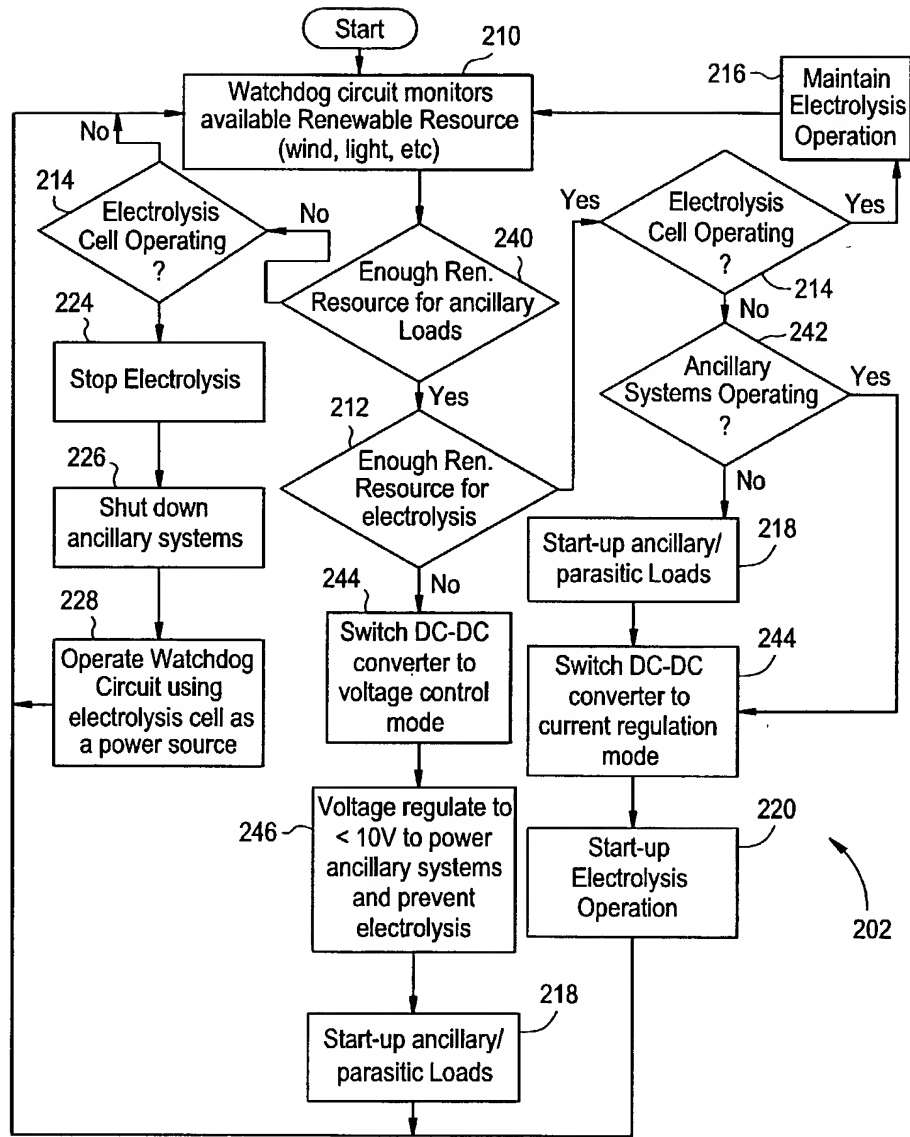


FIG. 10



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FIG. 11A

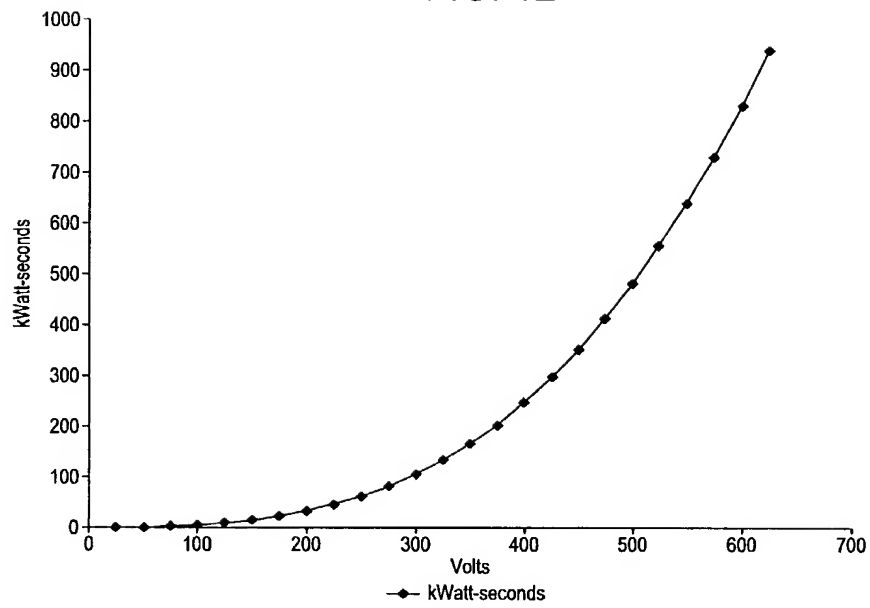
Given		Resulting values					Given	Resulting values	
Cap size	Cap voltage	Resulting cap	Resulting charge	Resulting energy	Energy	Energy	Output power	Resulting holdup time	
F	V	uF	C	J	Ws	kWs	kW	s	min
Farads	Volts	micro-Farads	Coulombs	Joules	Watt-seconds	kWatt-seconds	Kilo-watts	Seconds	Minutes
0.0077	25	7700	0.19	60	60	0	10	0.01	0.0
0.0077	50	7700	0.39	481	481	0	10	0.05	0.0
0.0077	75	7700	0.58	1624	1624	2	10	0.16	0.0
0.0077	100	7700	0.77	3850	3850	4	10	0.39	0.0
0.0077	125	7700	0.96	7520	7520	8	10	0.75	0.0
0.0077	150	7700	1.16	12574	12574	10	10	1.25	0.0
0.0077	175	7700	1.35	20634	20634	21	10	2.06	0.0
0.0077	200	7700	1.54	30800	30800	31	10	3.08	0.1
0.0077	225	7700	1.73	43854	43854	44	10	4.39	0.1
0.0077	250	7700	1.93	60156	60156	60	10	6.02	0.1
0.0077	275	7700	2.12	80068	80068	80	10	8.01	0.1
0.0077	300	7700	2.31	103960	103960	104	10	10.40	0.2
0.0077	325	7700	2.50	132163	132163	132	10	13.22	0.2
0.0077	350	7700	2.70	165069	165069	165	10	18.51	0.3
0.0077	375	7700	2.89	203027	203027	203	10	20.30	0.3
0.0077	400	7700	3.08	246400	246400	246	10	24.64	0.4
0.0077	425	7700	3.27	290540	290540	296	10	29.55	0.5
0.0077	450	7700	3.47	350631	350631	351	10	35.06	0.6
0.0077	475	7700	3.66	412612	412612	413	10	41.26	0.7
0.0077	500	7700	3.85	481250	481250	481	10	48.13	0.8
0.0077	525	7700	4.04	557107	557107	557	10	55.71	0.9
0.0077	550	7700	4.34	640644	640644	611	10	64.05	1.1
0.0077	575	7700	4.43	731921	731921	732	10	73.19	1.2
0.0077	600	7700	4.62	831600	831600	832	10	83.16	1.4
0.0077	625	7700	4.81	939941	939941	940	10	93.99	1.6

FIG. 11B

Given		Resulting values				
Cap size	Cap voltage	Resulting cap	Resulting charge	Resulting energy	Energy	Energy
F	V	uF	C	J	Ws	kWs
Farads	Volts	micro-Farads	Coulombs	Joules	Watt-seconds	kWatt-seconds
0.001	25	1000	0.03	8	8	0
0.001	50	1000	0.05	63	63	0
0.001	75	1000	0.08	211	211	0
0.001	100	1000	0.10	500	500	1
0.001	125	1000	0.13	977	977	1
0.001	150	1000	0.15	1688	1688	2
0.001	175	1000	0.18	2680	2680	3
0.001	200	1000	0.20	4000	4000	4
0.001	225	1000	0.23	5695	5695	6
0.001	250	1000	0.25	7813	7813	8
0.001	275	1000	0.28	10398	10398	10
0.001	300	1000	0.30	13500	13500	14
0.001	325	1000	0.33	17164	17164	17
0.001	350	1000	0.35	21438	21438	21
0.001	375	1000	0.38	26367	26367	26
0.001	400	1000	0.40	32000	32000	32
0.001	425	1000	0.43	36363	36363	35
0.001	450	1000	0.45	45563	45563	46
0.001	475	1000	0.48	53586	53586	54
0.001	500	1000	0.50	62500	62500	63
0.001	525	1000	0.53	72352	72352	72
0.001	550	1000	0.55	85100	85100	83
0.001	575	1000	0.58	95055	95055	95
0.001	600	1000	0.60	108000	108000	108
0.001	625	1000	0.63	122070	122070	122

Given	Resulting values	
Output power	Resulting holdup time	
kW	s	min
Kilo-watts	Seconds	Minutes
10	0.00	0.0
10	0.01	0.0
10	0.02	0.0
10	0.05	0.0
10	0.10	0.0
10	0.17	0.0
10	0.27	0.0
10	0.40	0.0
10	0.57	0.0
10	0.78	0.0
10	1.04	0.0
10	1.35	0.0
10	1.72	0.0
10	2.14	0.0
10	2.64	0.0
10	3.20	0.1
10	3.64	0.1
10	4.58	0.1
10	5.36	0.1
10	6.25	0.1
10	7.24	0.1
10	8.32	0.1
10	9.51	0.2
10	10.80	0.2
10	12.21	0.2

FIG. 12



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